

IN THE SPECIFICATION

In the title, please replace the title with the following title:

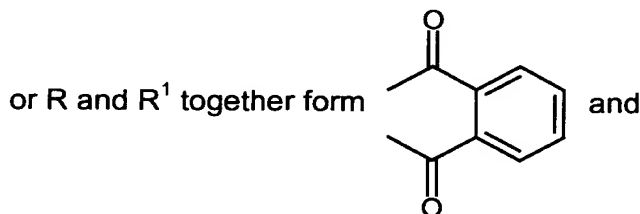
– α,ω -DIENE METATHESIS IN THE PRESENCE OF IONIC LIQUIDS–.

Please replace the Abstract, with the following Abstract submitted herein separately:

– α,ω -DIENE METATHESIS IN THE PRESENCE OF IONIC LIQUIDS

ABSTRACT OF THE DISCLOSURE

A process for preparing a cyclic compound comprising subjecting a starting material in the presence of a catalyst component to metathesis reaction in the presence of an ionic liquid, wherein the starting material is a α,ω -diene bearing a α substituent NRR^1 in the α position to a double bond, wherein R is hydrogen or an organic substituent, R^1 is tert-butyl, P^\oplus_2 , $\text{P}(\text{R}^2)_2$, COR, SO_2PhR , COOR or CONRR^2 , R^2 is alkyl or phenyl,



in which α,ω -dienes optionally bear at least one further substituent R in any other position with the exception of the α position, wherein R is selected from the group consisting of hydrogen, fused or unfused aryl, alkyl, CN, COOR^2 or halogen, and wherein the starting material optionally contains a member selected from the group containing at least one further substituent that is inert in the metathesis reaction and a heteroatom selected from the group consisting of branched alkyl radicals, unbranched alkyl radicals, aromatic carbocyclic rings, non-aromatic carbocyclic rings, carboxylic acids, esters, ethers, epoxides, silyl ethers, thioethers, thioacetals, anhydrides, imines, silylenol ethers, ammonium salts, amides, nitriles, perfluoroalkyl groups, geminal dialkyl groups, alkynes, alkenes, halogens, alcohols, ketones, aldehydes, carbamates, carbonates, urethanes, sulfonates, sulfones, sulfonamides, nitro groups, organosilane units, metal centers and oxygen-containing heterocycles, nitrogen-containing heterocycles, sulfur-containing heterocycles and phosphorus-

containing heterocycles, wherein the catalyst component includes homogeneous catalysts and heterogeneous catalysts selected from the group consisting of (i) transition metal carbenes, (ii) transition metal compounds that form transition metal carbenes under the reaction conditions, and (iii) transition metal salts in combination with an alkylating agent.—